

Advanced Algebra
Solve Quadratic Equations by Factoring

Name _____
Hour _____

Solve each equation by factoring. Check answer.

1. $x^2 + 9x + 20 = 0$

2. $x^2 - 6x - 7 = 0$

3. $x^2 - 18x - 40 = 0$

4. $x^2 - 3x - 4 = 0$

5. $x^2 + 2x + 1 = 0$

6. $6x^2 - 12x = 0$

7. $x^2 + 6x = -8$

8. $x^2 + 6 = -7x$

9. $x^2 = -9x - 8$

10. $3x^2 + 18 = 15x$

11. $2x^2 + 72 = -26x$

12. $5x^2 = 15x$

13. $x^2 - 6x - 7 = 0$

14. $5x^2 - 6x + 1 = 0$

15. $4x^2 + 9x + 5 = 0$

Advanced Algebra
Solve by Square Root Method

Name _____
Hour _____

1. Explain when you would use square root method instead of one of the other methods.

Solve each equation by the square root method. Simplify and check answer.

2. $x^2 - 49 = 0$

3. $x^2 - 1 = 0$

4. $x^2 - 144 = 0$

5. $(x + 5)^2 = 36$

6. $(x - 2)^2 = 18$

7. $x^2 - 16 = 0$

8. $4x^2 = 1$

9. $25x^2 - 9 = 0$

10. $x^2 = 121$

11. $2x^2 = 8$

12. $x^2 - 12 = 0$

13. $7x^2 - 105 = 0$